

Claims

[c1] What is claimed is:

1. A system for implementing a low velocity air burst munition and munition launcher on an existing weapon, comprising:

a fuze for detonation of the low velocity air burst munition;

a fuze setter for setting a range at which the fuze detonates the low velocity air burst munition; and

wherein the fuze calculates a flight time for the range at which the fuze is triggered from a ballistics characteristic for the low velocity air burst munition stored in the fuze.

[c2] 2. The system of claim 1, wherein the low velocity air burst munition comprises a plurality of external electrical contacts for electrically connecting the fuze to the fuze setter.

[c3] 3. The system of claim 1, wherein the munitions launcher comprises a plurality of chamber contacts for electrically connecting the external electrical contacts to the fuze setter.

[c4] 4. The system of claim 1, wherein the chamber contacts

are electrically connected to the fuze setter via a data communication cable.

- [c5] 5. The system of claim 1, wherein the fuze setter comprises a means for displaying the range at which the fuze is triggered.
- [c6] 6. The system of claim 5, wherein the display can be viewed in daylight.
- [c7] 7. The system of claim 5, wherein the display can be viewed at night.
- [c8] 8. The system of claim 7, wherein the display can be viewed by a user wearing a night vision device.
- [c9] 9. The system of claim 1, wherein the fuze comprises a means by which the range is manually entered by a user into the fuze setter.
- [c10] 10. The system of claim 9, wherein the means by which the range is manually entered can be manipulated by a user wearing gloves.
- [c11] 11. The system of claim 9, wherein the fuze setter comprises a means by which the range is electronically entered by an electronic range finding device into the fuze setter.

- [c12] 12. The system of claim 1, wherein the fuze is triggered upon impact with a stiff obstacle, detonating the low velocity air burst munition.
- [c13] 13. The system of claim 1, wherein the fuze is triggered after a predetermined time delay that is in excess of the flight time has elapsed, detonating the low velocity air burst munition.
- [c14] 14. The system of claim 1, wherein the range is transmitted from the fuze setter to the low velocity air burst munition by means of magnetic induction.
- [c15] 15. The system of claim 1, wherein the fuze detonates the explosive material by counting up from a zero time to the flight time.
- [c16] 16. The system of claim 1, wherein the fuze detonates the explosive material by counting down from the flight time to zero.
- [c17] 17. The system of claim 1, wherein the fuze setter comprises one or a plurality of commercially available batteries for providing power to the fuze setter.